

Claims

What is claimed is:

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1. A work machine, comprising:  
a main frame;  
an engine assembly mounted on said main  
frame;  
a radiator assembly mounted on said main  
frame; and  
a transmission assembly (i) mechanically  
10 coupled to said engine assembly and (ii) mounted on  
said main frame such that said transmission assembly is  
interposed between said engine assembly and said  
radiator assembly.

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2. The work machine of claim 1, wherein:  
said main frame has a longitudinal axis,  
said radiator assembly includes a cooling  
core having an upper edge, and  
said cooling core is positioned relative to  
20 said longitudinal axis such that (i) a linear extension  
of said upper edge defines a line  $L_1$ , (ii) a line  $L_2$  is  
defined by a line which intersects said longitudinal  
axis so as to define a  $90^\circ$  angle  $\alpha$  therebetween, (iii)  
an angle  $\sigma$  is defined between said line  $L_1$  and said  
25 line  $L_2$ , and (iv)  $40.0^\circ \leq \sigma \leq 95.0^\circ$ .

D3 3. The work machine of claim 1, further comprising a cab assembly mounted on said main frame, wherein:

5 said cab assembly is interposed between said engine assembly and said radiator assembly.

4. The work machine of claim 1, further comprising:

9 10 a work implement coupled to said main frame, and

said radiator assembly is interposed between said work implement and said engine assembly.

15 5. The work machine of claim 4, wherein: said work implement includes ~~a~~ truck bed.

Sub 1H 6. The work machine of claim 1, wherein: said radiator assembly includes (i) a radiator fan and (ii) a cooling core, and  
9 20 said cooling core is interposed between said radiator fan and said engine assembly.

7. The work machine of claim 6, further comprising an engine fan mounted on said main frame, wherein:

said engine assembly is interposed between said engine fan and said radiator fan.

*Sub 5*  
8. The work machine of claim 1, further comprising:

a conduit having (i) a first end attached to said engine assembly, (ii) a second end attached to  
5 said radiator assembly and, (iii) said engine assembly is in fluid communication with said radiator assembly; and

a cooling fluid which is advanced from said radiator assembly to said engine assembly through said  
10 conduit.

9. The work machine of claim 1, further comprising:

*a* 15 a ground engaging mechanism mechanically coupled to said engine assembly,

wherein actuation of said ground engaging mechanism by said engine assembly causes said work machine to be advanced over a ground segment.

*Sub 27*  
20 10. A work machine, comprising:

a main frame;

an engine assembly mounted on said main frame;

25 a radiator assembly mounted on said main frame; and

a cab assembly mounted on said main frame such that said cab assembly is interposed between said engine assembly and said radiator assembly.

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11. The work machine of claim 10, wherein:  
said main frame has a longitudinal axis,  
said radiator assembly includes a cooling  
core having an upper edge, and

5           said cooling core is positioned relative to  
said longitudinal axis such that (i) a linear extension  
of said upper edge defines a line  $L_1$ , (ii) a line  $L_2$  is  
defined by a line which intersects said longitudinal  
axis so as to define a  $90^\circ$  angle  $\alpha$  therebetween, (iii)  
10   an angle  $\sigma$  is defined between said line  $L_1$  and said  
line  $L_2$ , and (iv)  $40.0^\circ \leq \sigma \leq 95.0^\circ$ .

12. The work machine of claim 10, further  
comprising:

15           a work implement coupled to said main frame,  
and  
          said radiator assembly is interposed between  
said work implement and said cab assembly.

20           13. The work machine of claim 12, wherein:  
said work implement includes a truck bed.

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14. The work machine of claim 10, wherein:  
said radiator assembly includes (i) a  
25   radiator fan and (ii) a cooling core, and  
          said cooling core is interposed between said  
radiator fan and said cab assembly.

15. The work machine of claim 14, further comprising:

an engine fan mounted on said main frame such  
5 that said engine assembly is interposed between said  
engine fan and said radiator fan.

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16. The work machine of claim 10, further comprising:

10 a conduit having (i) a first end attached to  
said engine assembly, (ii) a second end attached to  
said radiator assembly, and (iii) said engine assembly  
is in fluid communication with said radiator assembly;  
and

15 a cooling fluid which is advanced from said  
radiator assembly to said engine assembly through said  
conduit.

17. The work machine of claim 10, further comprising:

20 a ground engaging mechanism mechanically  
coupled to said engine assembly;

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25 wherein actuation of said ground engaging  
mechanism by said engine assembly causes said work  
machine to be advanced over a ground segment.

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18. A work machine, comprising:
- a main frame;
- an engine assembly mounted on said main  
frame;
- 5 a radiator assembly mounted on said main  
frame;
- a cab assembly mounted on said main frame  
such that said cab assembly is interposed between said  
engine assembly and said radiator assembly;
- 10 a work implement coupled to said main frame;  
and
- a ground engaging mechanism mechanically  
coupled to said engine assembly,
- wherein actuation of said ground engaging  
15 mechanism by said engine assembly causes said work  
machine to be advanced over a ground segment.

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